

# FBs-6RTD

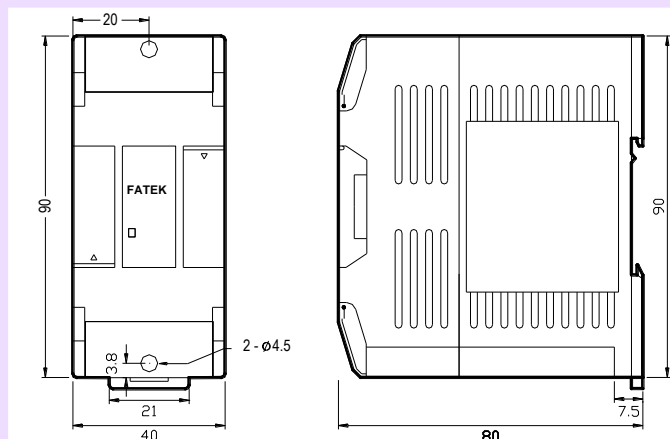
## 6 Channel RTD Temperature Input Module



### Introduction

FBs-6RTD is one of the temperature input modules of FATEK FBs series PLC. It provides 6 channels of RTD temperature measurement input with 0.1 °C or 1 °C resolution. The scan rate for 0.1 °C resolution is 2 seconds, while the scan rate for 1 °C resolution is 1 second. This module provides three-wire connection for RTD temperature sensor, thus can automatically compensate the resistance introduced by the wiring. All the optional features of this module are software configurable, there are no hardware jumpers or switches for user to setup.

### Dimensions



### Specifications

**Total Channels** - 6 CH

**Resolution**- 0.1 °C or 1 °C

**I/O Points Occupied** –

1 RI(Input Register)

8 Discrete Output(DO)

**Conversion Time**- 1 or 2 Seconds

**Accuracy**- ±1 %

**Sensor Type**- Pt-100, Pt1000 (JIS or DIN)

**Software Filter**- Moving average

**Average Samples**- 1,2,4,8 configurable

**Measurement Range**-

Pt100: -200~850°C

Pt1000: -200~600°C

**Isolation**- Transformer(Power) and photo-coupler(Signal)

**Indicator(s)** – 5V PWR LED

**Supply Power**- 24V-15%/+20%, 2VA

**Internal Power Consumption**- 5V, 35mA

**Operating Temperature**- 0 ~ 60 °C

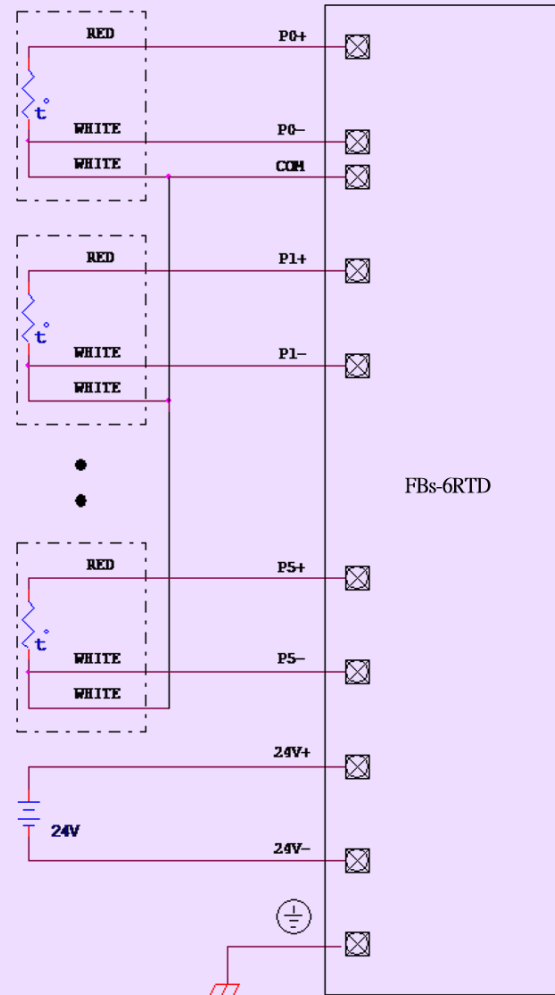
**Storage Temperature**- -20 ~ 80 °C

**Dimensions**- 40(W)x90(H)x80(D) mm

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### Wiring Diagram



### I/O Configuration

Before the temperature value can be retrieved, the user should perform the I/O configuration of temperature module with the help of Winproladder software. The following screen will be shown when perform the I/O configuration

I/O Configuration MC v4.x

Utilization

I/O No.	Function
X0	Undefined
X1	Undefined
X2	Undefined
X3	Undefined
X4	Undefined
X5	Undefined
X6	Undefined
X7	Undefined
X8	Undefined
X9	Undefined
X10	Undefined
X11	Undefined
X12	Undefined
X13	Undefined
X14	Undefined
X15	Undefined
Y0	Undefined
Y1	Undefined
Y2	Undefined

Input Setup | Temp. Configuration | AI Configuration

Temperature Configuration

Starting Address of Configuration Table: R100 (R100~R108)

Starting Address of Temperature Register: R200 (R200~R245)

Starting Address of Working Register: R300 (R300~R323)

Address	Module Name	Sensor Type	Unit of Temp.	Times of Average	Scan Rate
#1: R3840	FBs-6TC	J	Celsius	No	Normal
#2: R3841	FBs-2TC	K	Celsius	No	Normal
#3: R3842	FBs-16TC	T	Celsius	No	Normal
#4: R3843	FBs-6RTD	PT100-DIN	Celsius	No	Normal
#5: R3844	FBs-16RTD	PT1000-DIN	Celsius	No	Normal
#6:					
#7:					
#8:					

Ok Cancel

The user need to assign a starting register of a contiguous register area for holding temperature reading value and areas for storing the configuration table and working scratchpad and define the sensor type, unit of temperature, scan speed and samples for average. Please refer the advanced manual II for detail explanation.